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**Listing of Claims:**

The following is a marked-up version the Claims pursuant to revised 37 C.F.R. §1.121, with instructions and markings showing changes made herein to the Claims as filed.

Underlining denotes added text while strikeout denotes deleted text.

Claims 1-48 (Cancelled)

49. (Previously Presented) A method for producing a protein from an evolved microorganism comprising the steps of:

- a) obtaining a microorganism comprising at least one heterologous mutator gene and at least one introduced nucleic acid encoding at least one heterologous protein;
- b) culturing said microorganism for at least 20 doublings under conditions suitable for selection of an evolved microorganism, wherein said heterologous mutator gene generates a mutation rate of at least 5-100,000 fold relative to wild type, and wherein said heterologous protein is expressed by said microorganism; and
- c) restoring said evolved microorganism to a wild type mutation rate.

50. (Cancelled)

51. (Currently Amended) The method of Claim ~~50~~ 49, further comprising the step of isolating said at least one heterologous protein from said evolved microorganism.

52. (Previously Presented) The method of Claim 49, wherein said at least one heterologous protein is a hydrolase.

53. (Previously Presented) The method of Claim 53, wherein said hydrolase is selected from the group consisting of proteases, esterases, lipases, phenol oxidase, permeases, amylases, pullulanases, cellulases, glucose isomerase, laccases, and protein disulfide isomerases.

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